



If velocity of object V = 2t + 1 then find average velocity in 2 sec. $(t_i = 0 \text{ to } t_f = 2 \text{ sec})$

$$\frac{1}{2\sqrt{4x}} = \frac{\int \sqrt{4x}}{\int \sqrt{4x}} = \frac{\int \sqrt{2x}}{2\sqrt{4x}} = \frac{\int \sqrt{2x}}{\sqrt{2x}} = \frac{\int \sqrt{$$

$$\frac{2(t^{2})^{2}+(t)^{2}}{(t)^{2}}$$

$$\frac{(t)^{2}}{(t)^{2}}$$

$$\frac{(t)^{2}}{(t)^{2}}$$

2-0

$$\frac{1}{(1.004)^{2}} = (1.004)^{-2}$$

$$= (1+0.004)^{-2} = (1-0.008)$$

$$= (1+(-2)\times0.009)$$

$$= 0.932$$

hint

1/0

MW

$$\sqrt{1.006} = \sqrt{1.006} = (1.006)^{2} = (1+0.006)^{2}$$

$$= 1 + \frac{0.066}{2}$$

$$= 1 + 0.003$$

$$= 1 - 0.03$$

$$\sqrt{0.95} = (1-0.01)^{1/2}$$

$$= (1-0.01) = 1-0.005$$

$$= 0.995$$

$$\sqrt{0.96} : (1-0.04)^{1/2}$$

$$= 1 - 0.04 = 1 - 0.02 = 0.980 = 0.975 - 0.98$$

$$\left(1+n\right)^{\gamma}=1+nn$$

$$-ne<<<1$$

$$(1+x)^{-n} = 1-nx$$

$$(1-x)^{n} = 1-nx$$

$$(1-n)^{-n} = 1+nx$$

$$\frac{1}{(0.56)^2} = (0.96)^2 = (1-0.04)^2 = 1+0.08$$

$$= 1.08$$

$$\frac{1}{(1.04)} = \frac{1}{(1.04)} = \frac{1}{(1+0.04)^2} = (1+0.04)^{-1} = 1-0.04 = 0.96$$

HIW

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H/W

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$$Sin^20 = \frac{1}{2} - \frac{\cos(2\theta)}{2}$$

$$\left(\frac{\sin^2\theta}{\theta} d\theta = \left(\frac{(\sin\theta)^2}{\theta} d\theta = \frac{(\sin\theta)^3}{3}\right)\right)$$

$$\int_{X} dx = \frac{x_{u+1}}{x_{u+1}}$$

$$(101)^3 = ??$$

$$(100(1+\frac{1}{100}))^{3}$$

$$= ([00]^3 (1 + \frac{3}{100})$$

1,

$$(10.01)^{2} = ??$$

$$(10+0.01)^{2} = (10(1+0.001))^{2}$$

$$= (0^{2}(1+0.001))^{2}$$

$$= (0^{2}(1+0.001))^{2}$$

$$= (0^{2}(1+0.002))$$

$$= (0^{2}(1.002))$$

$$= (0.01)^{2}$$

$$\int \frac{1}{(an+b)^2} dn = \frac{\log (an+b)^2}{(an+b)^2} dn = \frac{\log (an+b)^2}{(an+b)^$$

$$(05(20) = (05^20 - 5in^2\theta)$$

 $(05(20) = 1 - 25in^2\theta)$

$$2si70 = 1 - (os(20)$$

$$Sin^2\theta = \frac{1 - (os(2\theta))}{2}$$





